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NOTICE OF ALLOWANCE AND ISSUE FEE DUE

PM82/1009

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APPLICATION NO.	FILING DATE	TOTAL CLA	IMS	EXAMINER AND GROUP ART U	DATE MAILED	
09/546,256	04/10/00	027	TSAY, F		3672	10/09/01
First Named Applicant HOWE,		35	USC 154(b) term ext. =	0 Days	5 .

INVENTION METHOD AND APPARATUS FOR SAMPLING FLUIDS FROM A WELLBORE

ATTY'S	DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	MUR-8509US	166-336.	000 N	16 UTILI	TY NO	\$1240.00	01/09/02

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u>

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 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
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- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Notice of Allowability

Application No. **09/546.256**

Applicant(s)

Howe et al

Examiner

Frank S. Tsay

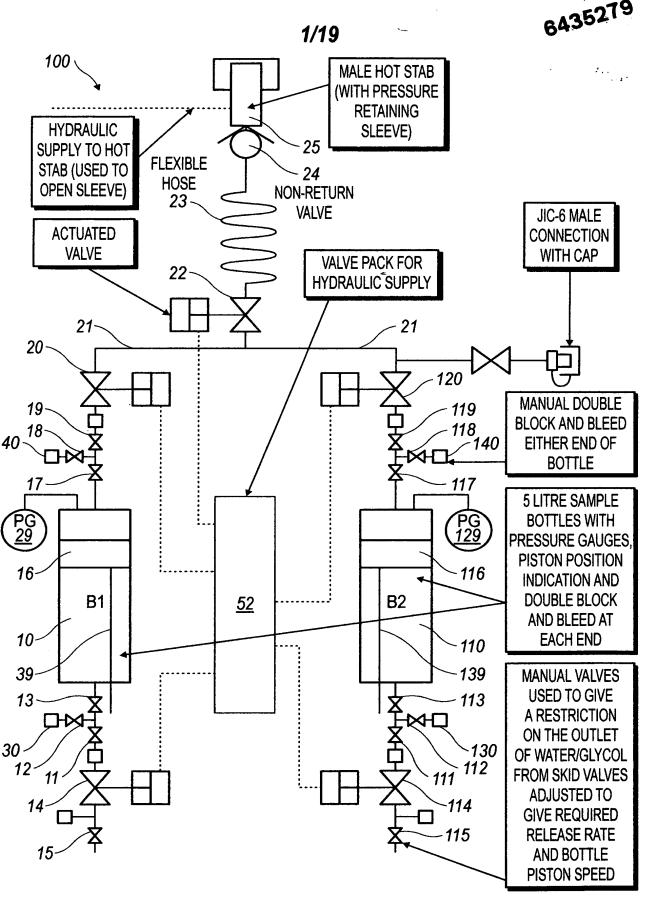
Art Unit



--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to Amendment filed on 7/7/01 2. X The allowed claim(s) is/are 1-11 and 13-28 3. The drawings filed on ____ are acceptable as formal drawings. 4. Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTITUTE OATH OR DECLARATION. This three-month period for complying with the REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL is extendable under 37 CFR 1.136(a). 6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. 7. X Applicant MUST submit NEW FORMAL DRAWINGS (a) I including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. . (b) ☐ including changes required by the proposed drawing correction filed , which has been approved by the examiner. (c) including changes required by the attached Examiner's Amendment/Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included. Attachment(s) 2 Notice of Informal Patent Application (PTO-152) 1 Notice of References Cited (PTO-892) 3 Notice of Draftsperson's Patent Drawing Review (PTO-948) 4 Interview Summary (PTO-413), Paper No. 5 Information Disclosure Statement(s) (PTO-1449), Paper No(s). 6 Examiner's Amendment/Comment 7 Examiner's Comment Regarding Requirement for Deposit of Biological 8 Examiner's Statement of Reasons for Allowance Material

9 X Other Drawings filed on 4/10/00 are declared informal.

FRANK S. TSAY
PRIMARY EXAMINER
ART UNIT 3672



Sampling Equipment FIG. 1

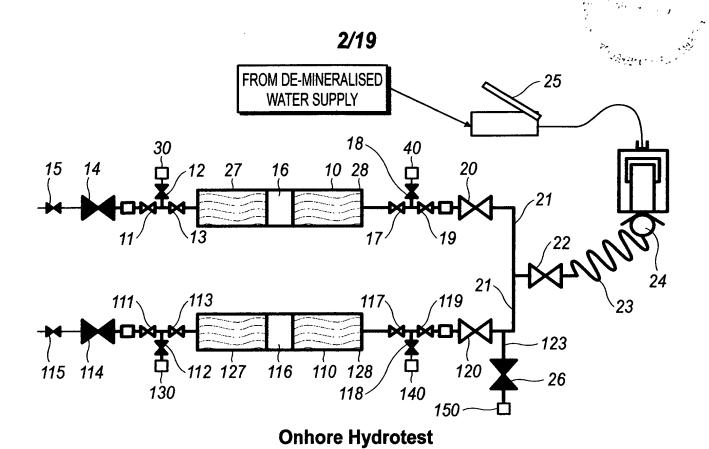
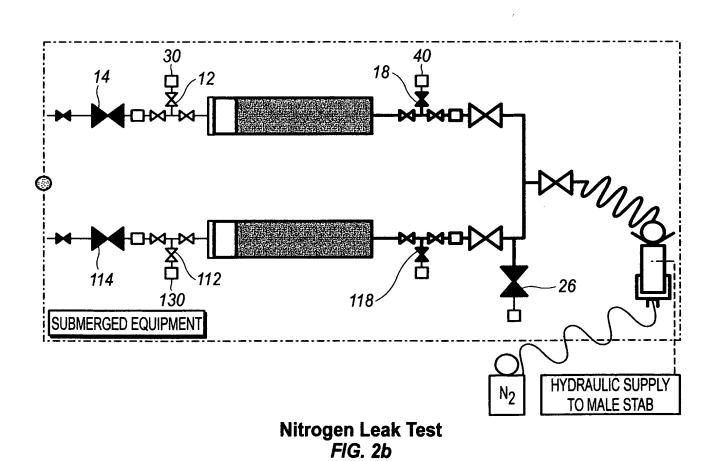
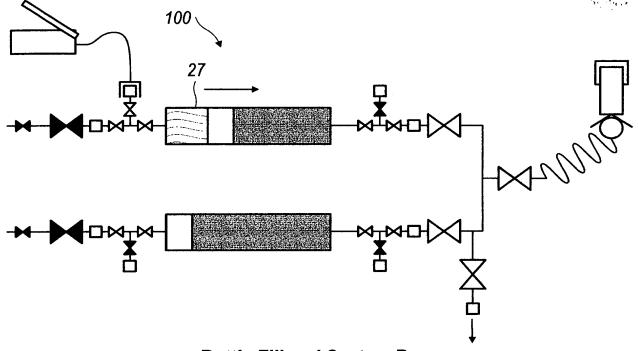
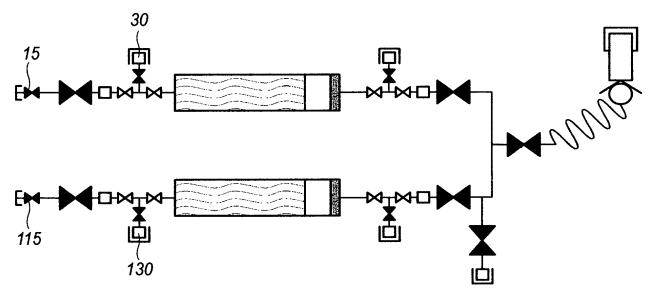


FIG. 2a





Bottle Fill and System Purge FIG. 3



System Transport Condition FIG. 4a



Spare Sample Bottle Transport Condition FIG. 4b

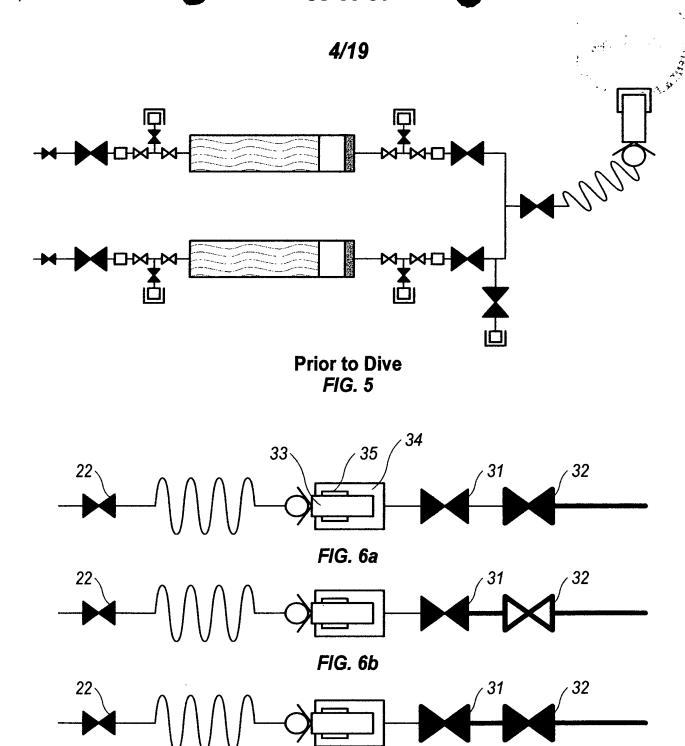
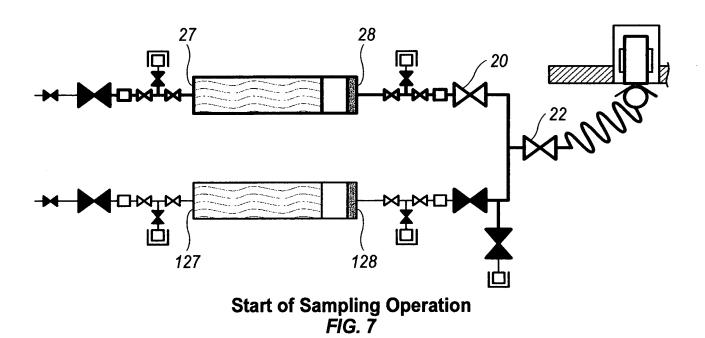
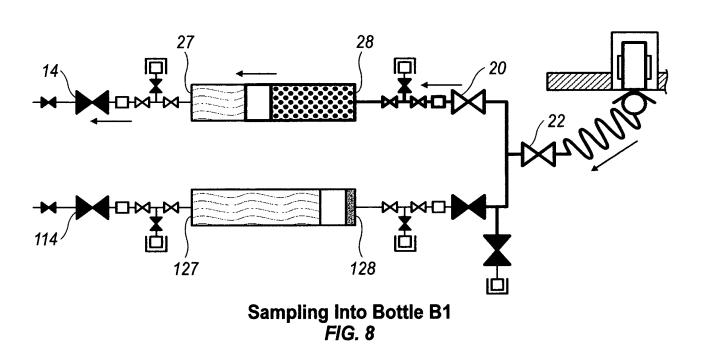


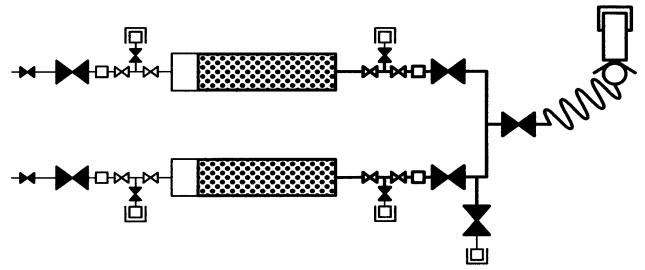
FIG. 6c

FIG. 6d

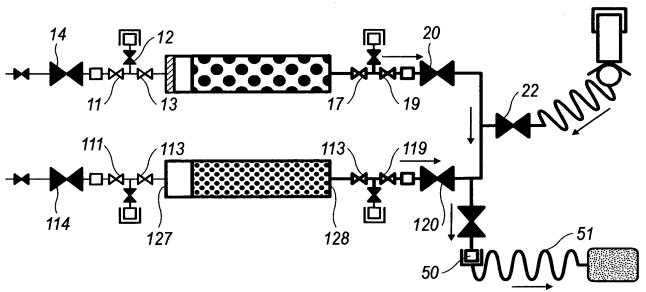
After ROV Docked at Panel FIG. 6a-d



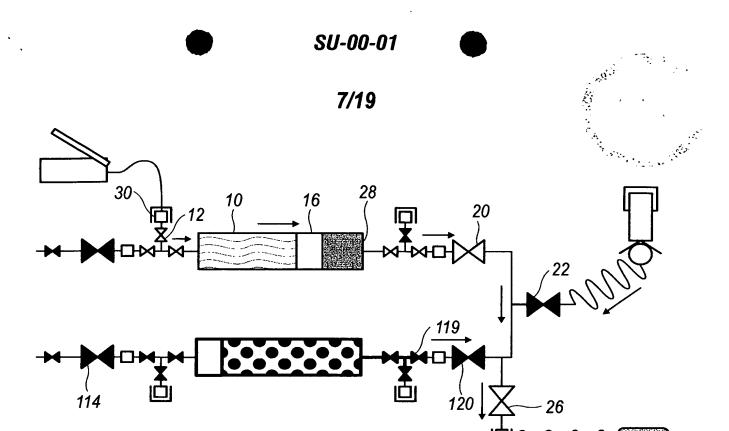




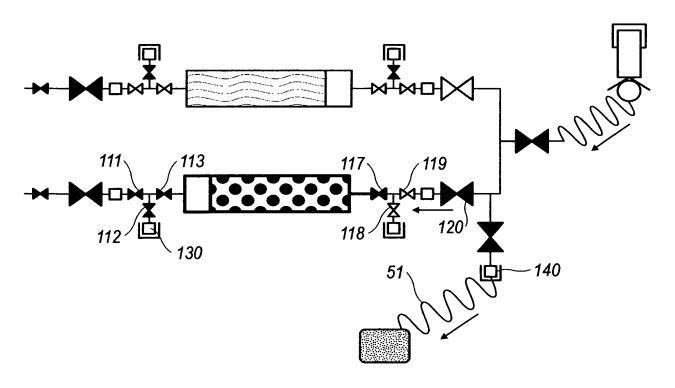
Sampling Complete, Recovered to Surface *FIG.* 9



Venting of Bottle B1 to Slop Tank FIG. 10

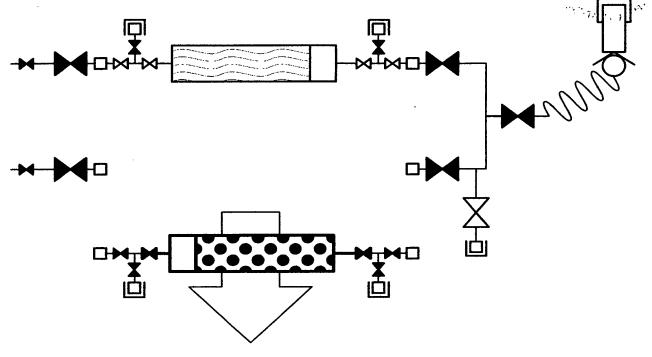


Filling Back of Bottle B1 with Water/Glycol FIG. 11

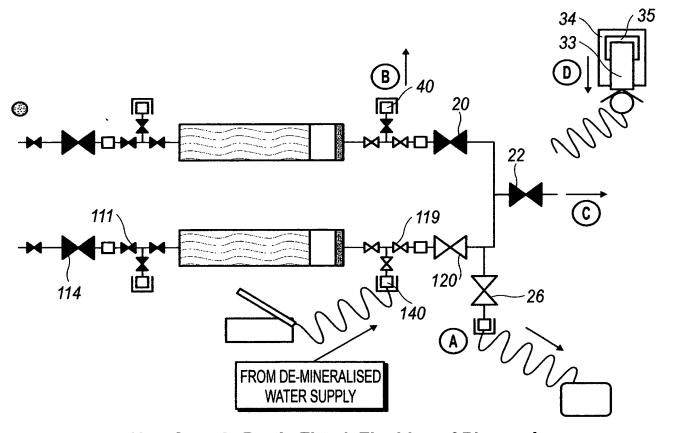


Venting Pipework Either Side of Bottle B2 Prior to Removal FIG. 12



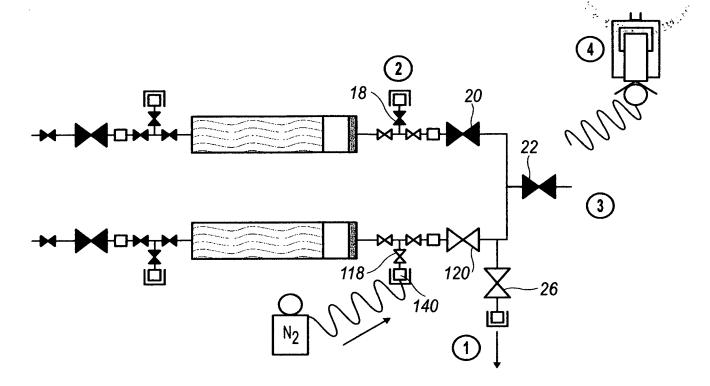


Removal of Bottle B2 FIG. 13

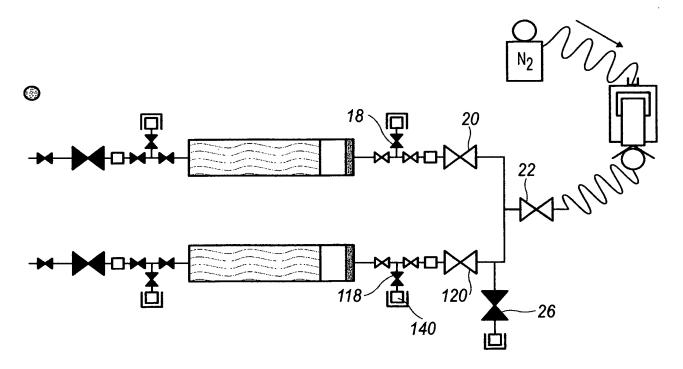


New Sample Bottle Fitted, Flushing of Pipework *FIG. 14*

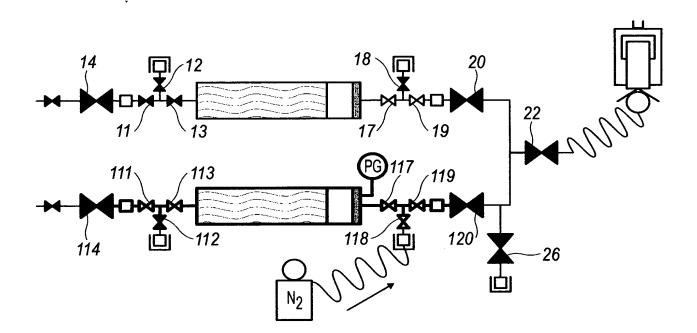
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Purging of Pipework with Nitrogen *FIG. 15*



Nitrogen Fill of Skid FIG. 16



Leak Test of Bottle Connection Points FIG. 17

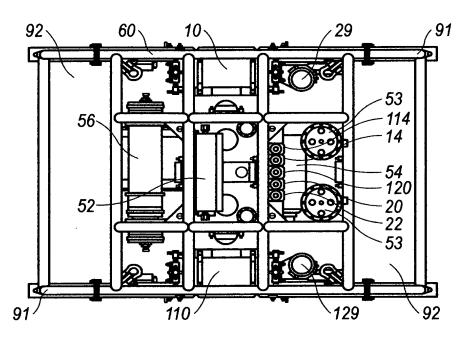


FIG. 18a

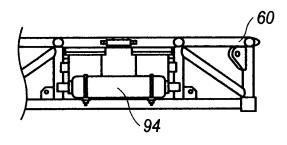


FIG. 18b

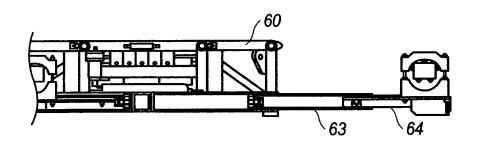


FIG. 18c

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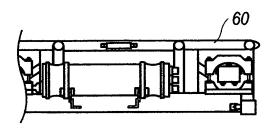


FIG. 18d

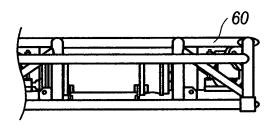


FIG. 18e

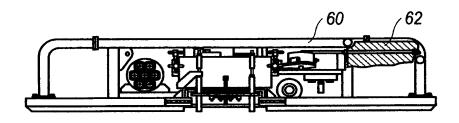


FIG. 18f

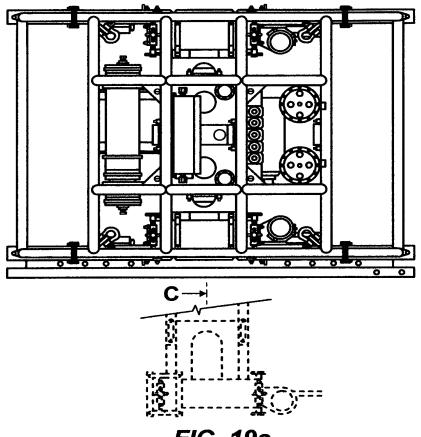
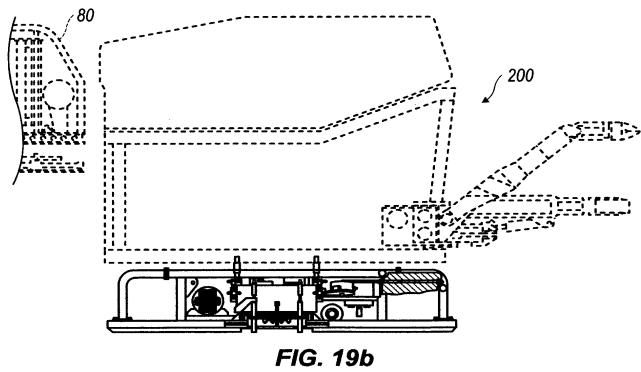


FIG. 19a



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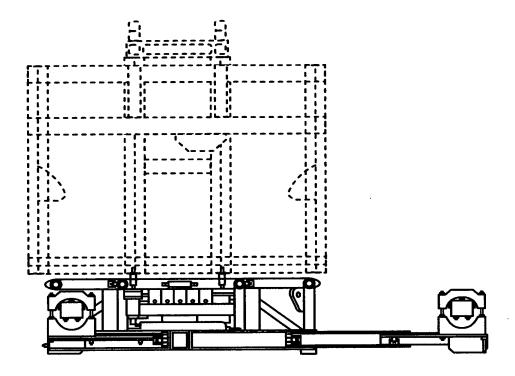


FIG. 19c

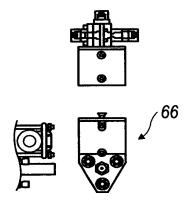


FIG. 20a

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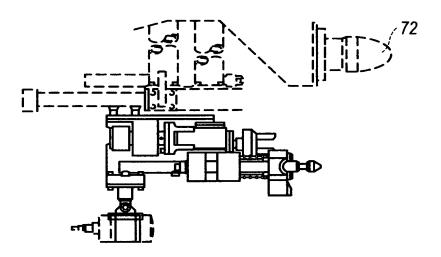


FIG. 20b

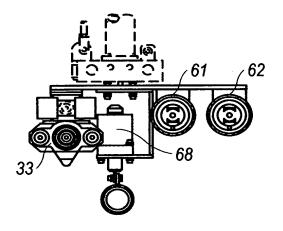


FIG. 20c

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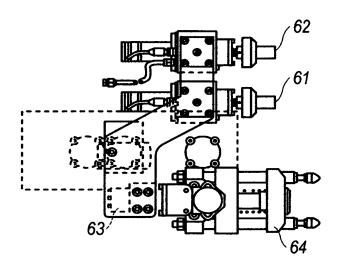
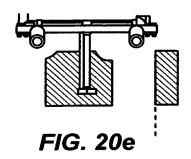
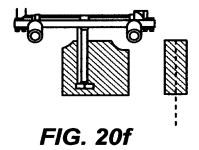
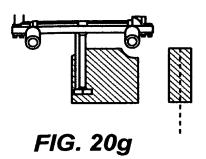


FIG. 20d







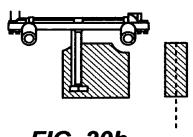
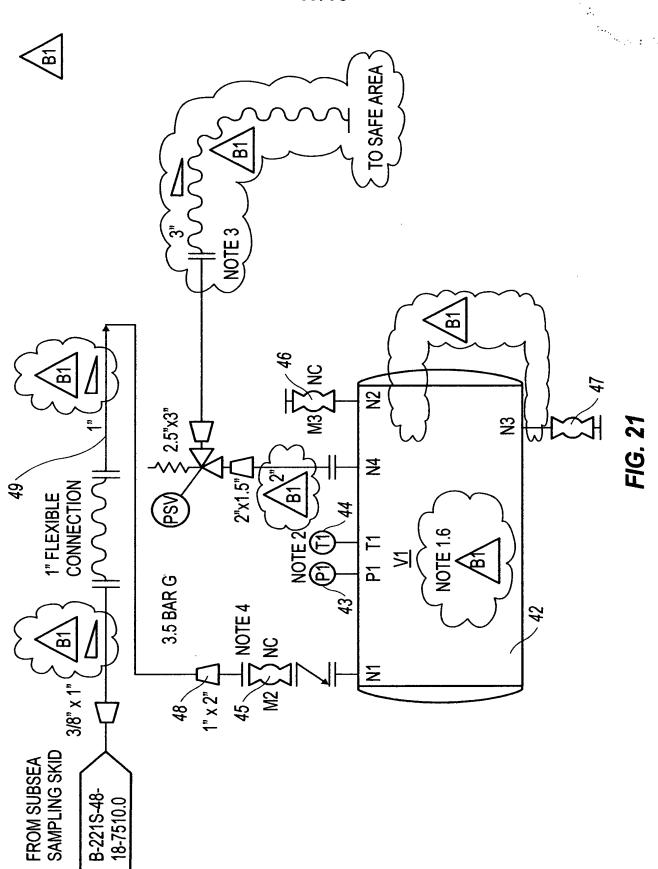


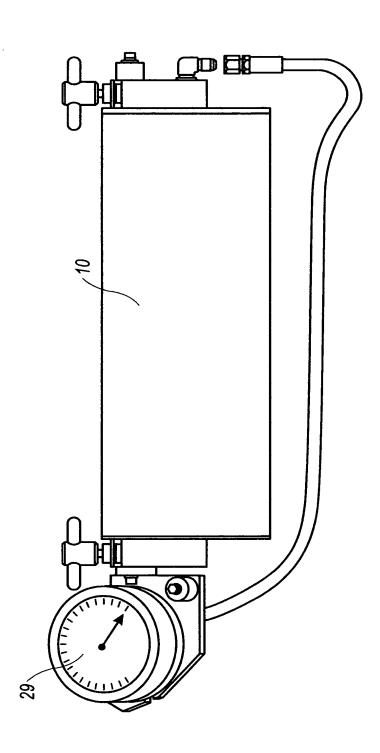
FIG. 20h

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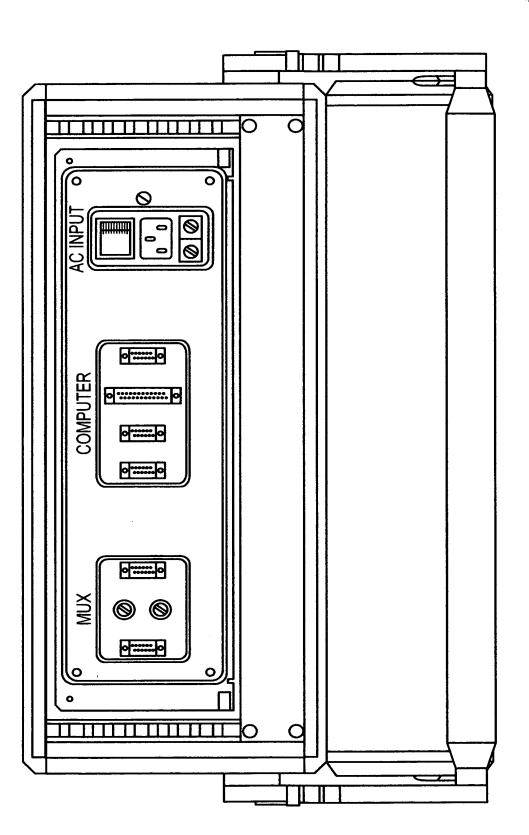
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F/G. 23